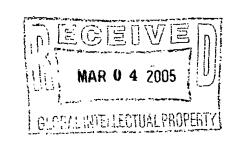
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	ONAL SEARC	HING AUTH	OKITY		DOTE:	Paper: WM
To: DAVID J LEVY GLAXOSMITHKLINE					<b>PCT</b>	Due Date: 2 Deadline. 2
				Deadline. A Recorded:		
FIVE MOORE DRIVE PO BOX 13398				WRITTEN OPINION OF THE		
RESEARCH TRIANGLE PARK, NC 27709				INTERNATIONAL SEARCHING AUTHORITY		
					(PCT Rule 43bis.1)	
				Date of mailing (day/month/year)	28 FEB 20	105
Applicant's or agent's file reference				FOR FURTHER	ACTION	
PR60397W	70				See paragraph 2 below	
	al application No	).	International filing date	(day/month/year)	Priority date (day/month/y	rear)
PCT/US04	/29748		10 September 2004 (10.0	09.2004)	26 September 2003 (26.09	0.2003)
		cation (IPC)	or both national classificati	on and IPC	,	
IDC(2): A C	1V 21/42 479	C. C £1400	0			
IPC(7): A6 Applicant	1K 31/42 and U	S Cl.: 514/37	8			
Аррисан						
SMITHKL	INE BEECHAM	CORPORA	TION			
		·····			<del> </del>	
1. This of	pinion contains i	ndications rel	lating to the following item	s:		
$\boxtimes$	Box No. I	Basis of the	e opinion			
Box No. II Priority						
$\overline{\Box}$	Box No. III	Non-establ	ishment of opinion with reg	gard to novelty, inver	ntive step and industrial app	licability
一	Box No. IV		ity of invention	•		,
	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain doo	cuments cited			
	Box No. VII	Certain def	ects in the international app	olication		
$\boxtimes$	Box No. VIII	Certain obs	servations on the internation	nal application		
2. FURT	THER ACTIO	N				
Interna Author	tional Prelimina	ary Examinir	ng Authority ("IPEA") ex	cept that this does IPEA has notified the	be considered to be a writt not apply where the apple ne International Bureau undered.	licant chooses as
IPEA a	a written reply to n PCT/ISA/220	ogether, wher or before the	e appropriate, with amenda expiration of 22 months from	ments, before the ex	PEA, the applicant is invited piration of 3 months from the whichever expires later.	
ror fur	ther options, see	romn PC 1/1	SAV22U.			
3. For fur	ther details, see	notes to Form	n PCT/ISA/220.			
Name and r	nailing address o	of the ISA/ U	S	Authorized office	T Janulel Si	halun
Mail Stop PCT, Attn: ISA/US			Raymond J Henl	ev III	-1	
	ommissioner for P O. Box 1450	atents		1.0,	-y	
A!exandria, Virginia 22313-1450				Telephone No. 571-272-0600		
Facsimile No. (703) 305-3230						

Form PCT/ISA/237 (cover sheet) (January 2004)



## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/29748

Box No. I Basis of this opinion							
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.							
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).							
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:							
a. type of material							
a sequence listing							
table(s) related to the sequence listing							
b. format of material							
in written format							
in computer readable form							
c. time of filing/furnishing							
contained in international application as filed.							
filed together with the international application in computer readable form.							
furnished subsequently to this Authority for the purposes of search.							
Turnsied subsequently to this Addiothy for the purposes of search.							
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.							
4. Additional comments:							

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/29748

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
1. Statement								
Novelty (N)	Claims 1-12	YES						
	Claims NONE	NO						
Inventive step (IS)	Claims 1-12	YES						
	Claims NONE	N0						
Industrial applicability (IA)	Claims 1-12	YES						
	Claims NONE	N0						

 ${\bf 2. \ Citations \ and \ explanations:}$ 

Claims 1-12 meet the criteria under PCT Article 33(2) for novelty because the cited reference fails to teach the presently claimed method for treating, reducing or preventing development of liver fibrosis comprising administering to a mammalian subject in need thereof a therapeutically effective amount of an FXR agonist.

Claims 1-12 meet the criteria under PCT Article 33(3) for inventive step because the cited reference fails to teach or suggest the presently claimed method for treating, reducing or preventing development of liver fibrosis comprising administering to a mammalian subject in need thereof a therapeutically effective amount of an FXR agonist.

Claims 1-12 meet the criteria under PCT Article 33(4) because the presently claimed method for treating, reducing or preventing development of liver fibrosis comprising administering to a mammalian subject in need thereof a therapeutically effective amount of an FXR agonist would have applicability in the medical industry.

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/29748

## Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claims 4-6, 8, 10 and 12 are objected to as lacking clarity under PCT Rule 66.2(a)(v) because of the claims are not fully supported by the description. The description does not disclose the claimed invention in a manner sufficiently clear and complete for the claimed invention to be carried out by a person skilled in the art because of the following reasons.

The objective truth of the statement that liver fibrosis can be prevented is doubted because the term "preventing" is synonymous with the term "curing" and both circumscribe methods of absolute success. Because absolute success is not reasonably possible with most diseases/disorders, especially these having an etiology and pathophysiological manifestations as complex/poorly understood as a liver fibrosis, the description, which lacks an objective showing that liver fibrosis can actually be prevented, is viewed as lacking an enabling disclosure of the same.

Claims 9-12 are objected to under PCT Rule 66.2(a)(v) and PCT Article 6 because the claims are indefinite.

The term "small" in claims 9-10, i.e., "a synthetic small molecule organic compound", is a relative term which renders the claims indefinite. The term "small" is not defined by the claim, the description does not provide a standard for ascertaining the requisite degree, and thus one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. The term "small" would invite subjective interpretations of whether a particular molecule was included in or excluded from the present claims and such interpretation is inconsistent with the requirements for definiteness as set forth in the above cited PCT rule and article.

